

26 May 87

Base Maintenance Officer, Marine Corps Base, Camp Lejeune  
Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune

MODEL INSTALLATION PROPOSAL (MIP) 87-CLNC-092-FAC, STEAM  
OPERATED SUMP PUMP

(a) AC/S Fac memo 11800 FAC of 12 May 87

1. As requested by the reference, the subject MIP has been reviewed. A similar proposal 87-CLNC-052-FAC, Converting Steam Operated Sump Pumps to Water was submitted previously and action was delayed pending recommendations of an ongoing steam trap survey on Contract N62470-85-C-8040. Therefore, it is requested that recommendations regarding the subject MIP be deferred as well. CWS

a. In addition to surveying steam traps, the scope of work includes the inspection of the steam operated sump pumps and making recommendations for the most efficient method of keeping the steam pits and sumps dry. Steam, water, and electric operated pumps will be studied.

b. On the contract completion date (September 1987) the Base will be provided an analysis of their findings and recommendations. This will provide the required information for approval or disapproval of the subject MIP.

2. Any questions concerning these findings should be directed to Mr. D. L. Southerland, extensions 5024/5161.

M. G. LILLEY

Assistant Chief of Staff, Washington, D.C.

LOCAL INFORMATION REPORT (LIR) 87-0143-0-1-1A1

DATE: 15 May 87

As requested by the reference, the subject LIR has been reviewed. A critical proposal 87-0143-0-1-1A1 concerning the proposed change to the way the subject is viewed and the way the subject is being reviewed is being reviewed. The subject is being reviewed as well.

In addition to the above, the scope of work including the inspection of the area covered was made. Recommendations for the most efficient way of conducting the work are being reviewed as well as the subject.

On the subject, a complete LIR will be prepared. This will provide the subject information for approval of the subject.

Any questions concerning these findings should be directed to the subject.

AT 2: 15 PM

ROUTING SLIP

13 MAY 1987

	ACTION	INFO	INITIALS
BMO		✓	
DBMO		✓	
DIR, ADMIN	(log) ✓	sem	
DIR, OPS			
DIR, M&R			
DIR, UTIL	✓		
SECRETARY			
COMMENTS:			

~~Suspense~~  
~~5 June~~

Have attached  
another MIP  
on pump  
pumps.

c.

~~CP5~~ (col pls investigate  
to see if same/same

CP5  
14

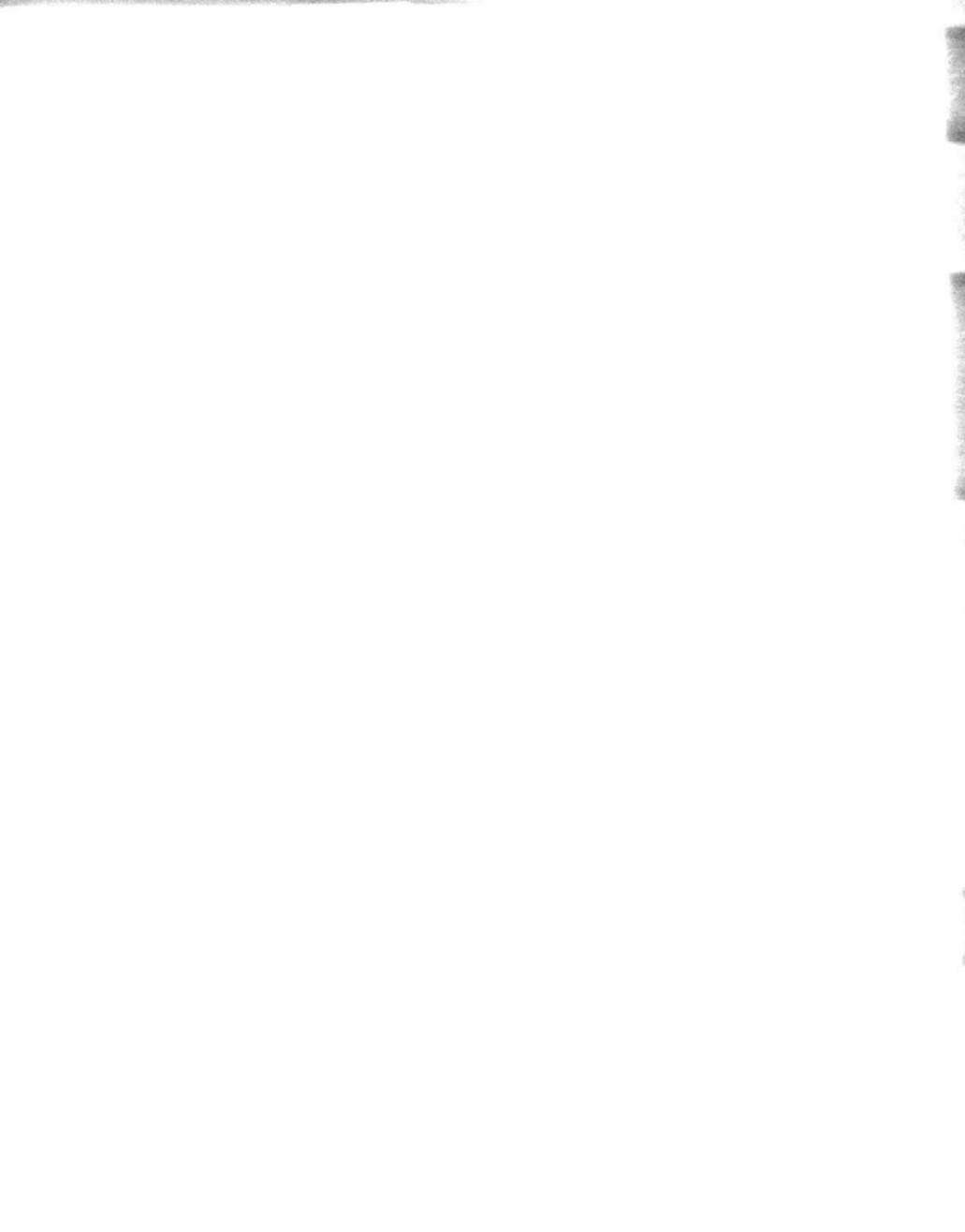
1951

ROUTING SLIP

13 MAY 1987

	ACTION	INFO	INITIALS
BMO		✓	
DBMO		✓	
DIR, ADMIN	(log) ✓	sem	
DIR, OPS			
DIR, M&R			
DIR, UTIL	✓		
SECRETARY			
COMMENTS:			

~~Suspense~~  
~~5 June~~



# Memorandum

11800  
FAC

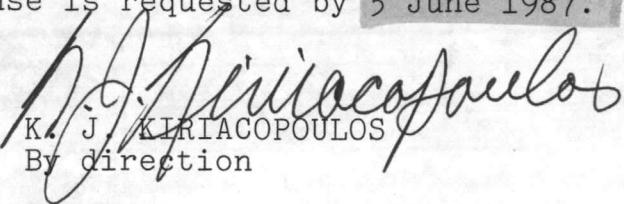
DATE: MAY 12 1987

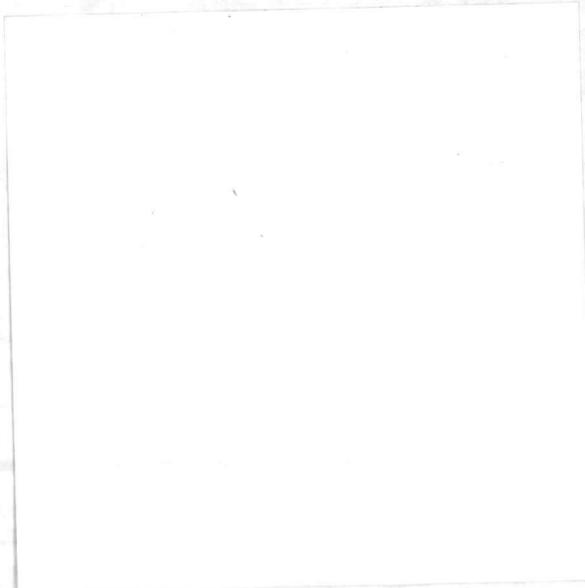
FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp  
Lejeune  
TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC,  
STEAM OPERATED SUMP PUMP

Encl: (1) AC/S, BOSMAD memo 11800 BOSM dtd 6 May 87

1. Please review the subject MIP proposal in accordance with  
established procedures. Response is requested by 5 June 1987.

  
K. J. KIRIACOPOULOS  
By direction



THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 1000  
BY J. H. GOLDSTEIN AND R. L. SEXTON

DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

Received for publication June 15, 1955  
Revised August 10, 1955

*[Faint handwritten notes and a signature are visible in this section.]*

# Memorandum

11800  
FAC

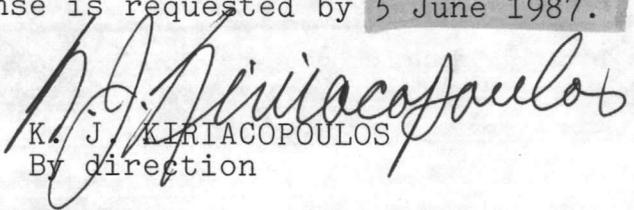
DATE: MAY 12 1987

FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp  
Lejeune  
TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC,  
STEAM OPERATED SUMP PUMP

Encl: (1) AC/S, BOSMAD memo 11800 BOSM dtd 6 May 87

1. Please review the subject MIP proposal in accordance with  
established procedures. Response is requested by 5 June 1987.

  
K. J. KIRIACOPOULOS  
By direction



11800  
BOSM  
MAY 6 1987

MEMORANDUM

From: Assistant Chief of Staff, Base Operational Support  
Management Assistance  
To: Assistant Chief of Staff, Facilities  
Subj: MODEL INSTALLATION PROGRAM PROPOSAL NO. 87-CLNC-092-FAC,  
STEAM OPERATED SUMP PUMP

Encl: (1) Subject Proposal

1. The enclosed proposal is forwarded for review and comment. Request recommendation for approval or disapproval be returned to this office with an excerpt from the applicable directive within ten working days from date of receipt. Recommendation for disapproval should be accompanied by a written rationale.
2. This office will forward proposals recommended for approval directly to the Commanding General for decision. Proposals recommended for disapproval will be reviewed by the Model Installation Steering Committee prior to forwarding to the Commanding General.
3. It is recommended that any other Marine Corps Base department that may be affected by the approval or disapproval of the enclosed proposal be contacted during your review.
4. BOSMAD POC is D. Martin, 5521/1577.

  
H. F. SMITH

Enclosure ( 1 )



TO: DIRECTOR, FBI (100-441100)

FROM: SAC, NEW YORK (100-100000)

SUBJECT: [Illegible]

[The following text is extremely faint and largely illegible due to the quality of the scan. It appears to be a memorandum or letter with several paragraphs of text.]

100-441100  
100-100000  
100-100000



# MODEL INSTALLATION PROGRAM

## PROPOSAL

### MARINE CORPS BASE CAMP LEJEUNE

**INSTRUCTIONS:**

1. COMPLETE ALL INFORMATION REQUESTED.
2. PLEASE PRINT OR TYPE LEGIBLY.
3. USE ADDITIONAL SHEETS IF NECESSARY.
4. FORWARD COMPLETED PROPOSAL TO AC/S, BOSMAD, MCB

**DO NOT WRITE IN THIS SPACE  
DATE RECEIVED**

6 May 87

**TITLE OR SUBJECT OF PROPOSAL**

STEAM OPERATED SUMP PUMP

**PROPOSAL NUMBER**

87-CLNC-092-FAC

**NAME, TITLE, GRADE/RANK OF SUBMITTER(S)**

LOUIS R. FUCILI, PIPE FITTER, WG10

**PHONE**

451-5794/5796

**CURRENT PROCEDURE**

The current procedure is the use of Penberthy Model 1R water operated and Model 2R SL steam operated sump pump to pump out steam dist. pits and house pits. The cost to replace one of these pumps is approximately \$690-\$860. The cost to maintain one of these pumps ranges from \$.42 for valve packing to \$264.00 for an ejector assembly. The average cost to repair one of these pumps is \$130.00 material, 1.8 man-hours, approximately \$32.00 labor for a total of \$162.00. There are over 400 steam distribution pits with this type sump pump in them. Approximately 100 or more pumps were replaced in Fiscal Year 1986 (\$690.00 - \$800.00 each) approximately \$70,000 in material, approximately 80 man-hours = \$1,389.00 for a total of \$71,389.00.

**PROPOSED PROCEDURE (If a directive/order must be waived to implement proposal-Identify the specific reference.)**

The proposed procedure is to fabricate a sump pump using a Sarco TD42H Thermodynamic Impulse Steam Trap, or an Armstrong CD-33 Thermodynamic Impulse Steam Trap. A Penberthy Model GL Jet Pump Ejector or use existing Penberthy Pump Ejector assembly. This pump operates on steam. The steam trap serves two purposes, to pump water from steam pit and to remove condensate from steam line. The cost of the thermodynamic trap is approximately \$145.00, the cost of the Jet Pump Ejector is approximately \$93.00, 1.8 man-hours to replace existing pump, approximately \$32.00 labor for a total of \$270.00. The total cost using existing Penberthy Pump Ejector Assembly, approximately \$177.00. There is only one moving part, the disk in the Thermodynamic Trap, and only two (2) replacement parts, total cost \$97.00, 1.8 man-hours, approx \$32 labor.

**BENEFITS/ADVANTAGES** maximum repair cost \$129.00.

Current Procedures Cost - \$690 - \$800 each Proposed Procedures Cost \$238 each  
A savings of \$452 -\$536 each.

Estimated replacement of 100 sump pumps, material &amp; labor

Current - \$71,389.00 Proposed \$27,000.00 A savings of \$44,389.00

Estimate of Repair of one (1) sump pump.

Current - Approximate average repair \$162.00 Proposed maximum total repair \$129.00

Current pump has more than 15 parts to be replaced, should it malfunction \$.42 through \$264  
Proposed pump has only two (2) parts to be replaced should it malfunction. Approximate cost \$97.00. Because it has less parts to be repaired or fail, the proposed pump requires less

maintenance.

I (WE) UNDERSTAND THAT THE ACCEPTANCE OF A CASH AWARD FOR THE USE OF THIS PROPOSAL BY THE UNITED STATES GOVERNMENT SHALL NOT FORM THE BASIS OF A FURTHER CLAIM OF ANY NATURE UPON THE UNITED STATES BY ME (US), MY (OUR) HEIRS, OR ASSIGNS.

*Louis R. Fucili* 5-6-87  
\_\_\_\_\_  
(SIGNATURE AND DATE)

\_\_\_\_\_  
(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL  
MCBCL 11800



11 MAR 1987

11800  
MAIN

Base Maintenance Officer, Marine Corps Base, Camp Lejeune  
Assistant Chief of Staff, Facilities, Marine Corps Base,  
Camp Lejeune

**MODEL INSTALLATION PROPOSAL (MIP) 87-CLNC-052-FAC, CONVERTING  
STEAM OPERATED SUMP PUMPS TO WATER**

(a) AC/S FAC memo 11800 FAC of 19 Feb 87

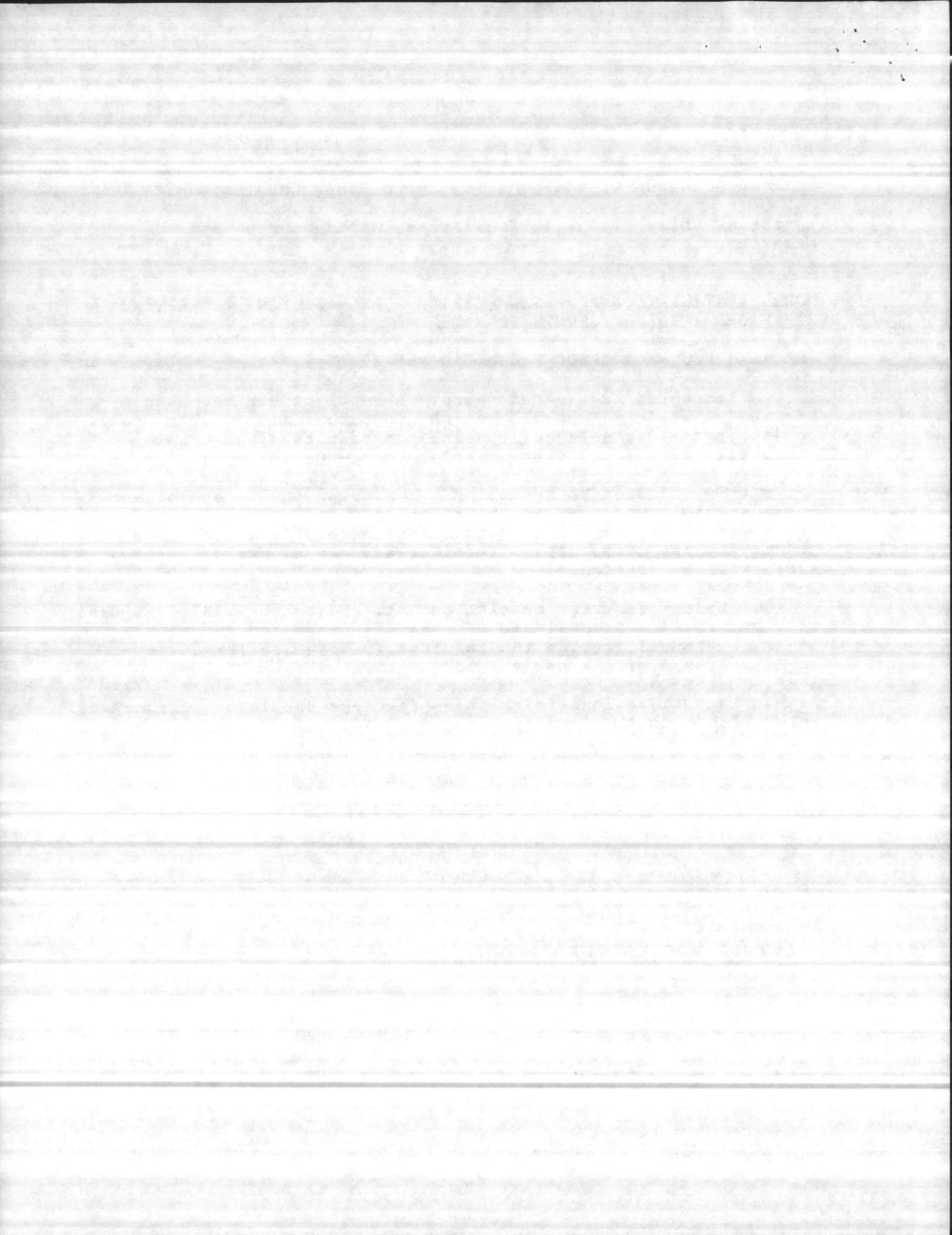
1. As requested in the reference, the subject MIP has been reviewed. It is requested that the recommendations for approval or disapproval be delayed, pending the results of an ongoing steam trap survey on Contract N62470-85-C-8040.

a. In addition to surveying steam traps, the scope of work includes the inspection of the steam operated sump pumps and making recommendations for the most efficient method of keeping the steam pits and sumps dry. Steam, water, and electric operated pumps will be studied.

b. On the contract completion date (September 1987) the Base will be provided an analysis of their findings and recommendations. This will provide the required information for approval or disapproval of the subject MIP.

2. Any questions concerning these findings should be directed to Mr. D. L. Southerland, extension 5024/5161.

M. G. LILLEY



# Memorandum

11800  
FAC

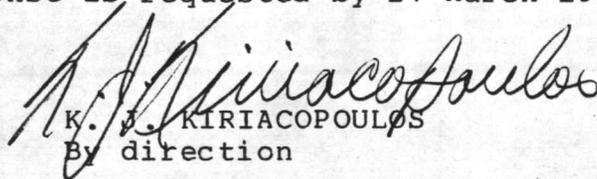
DATE: FEB 19 1987

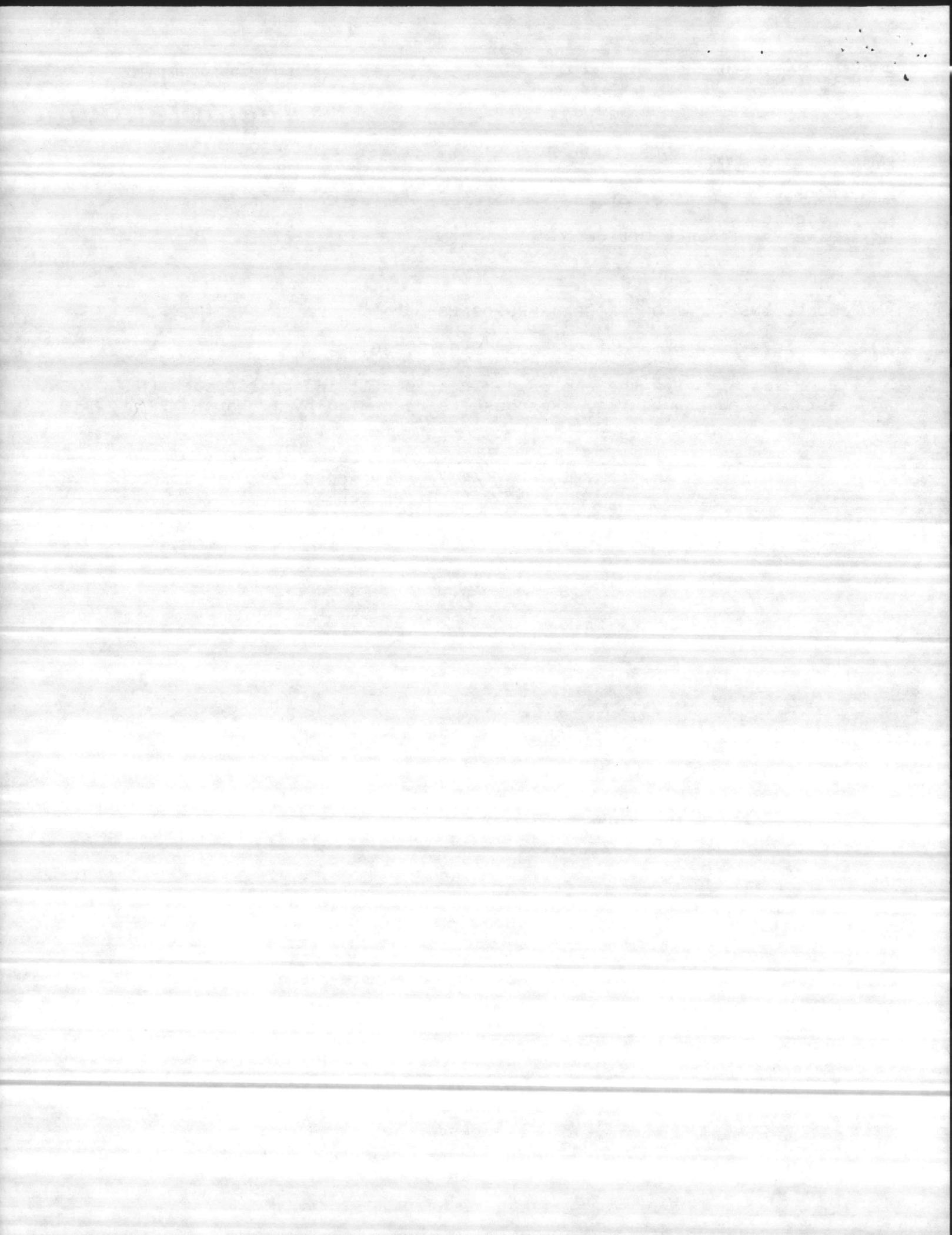
FROM: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp  
Lejeune  
TO: Base Maintenance Officer

SUBJ: MODEL INSTALLATION PROGRAM PROPOSALS

Encl: (1) AC/S BOSMAD memo 11800 BOSM dtd 13 Feb 87

1. Please review the enclosed MIP proposals in accordance with established procedures. Response is requested by 17 March 1987.

  
K. J. KIRIACOPOULOS  
By direction



11800  
BOSM

FEB 13 1987

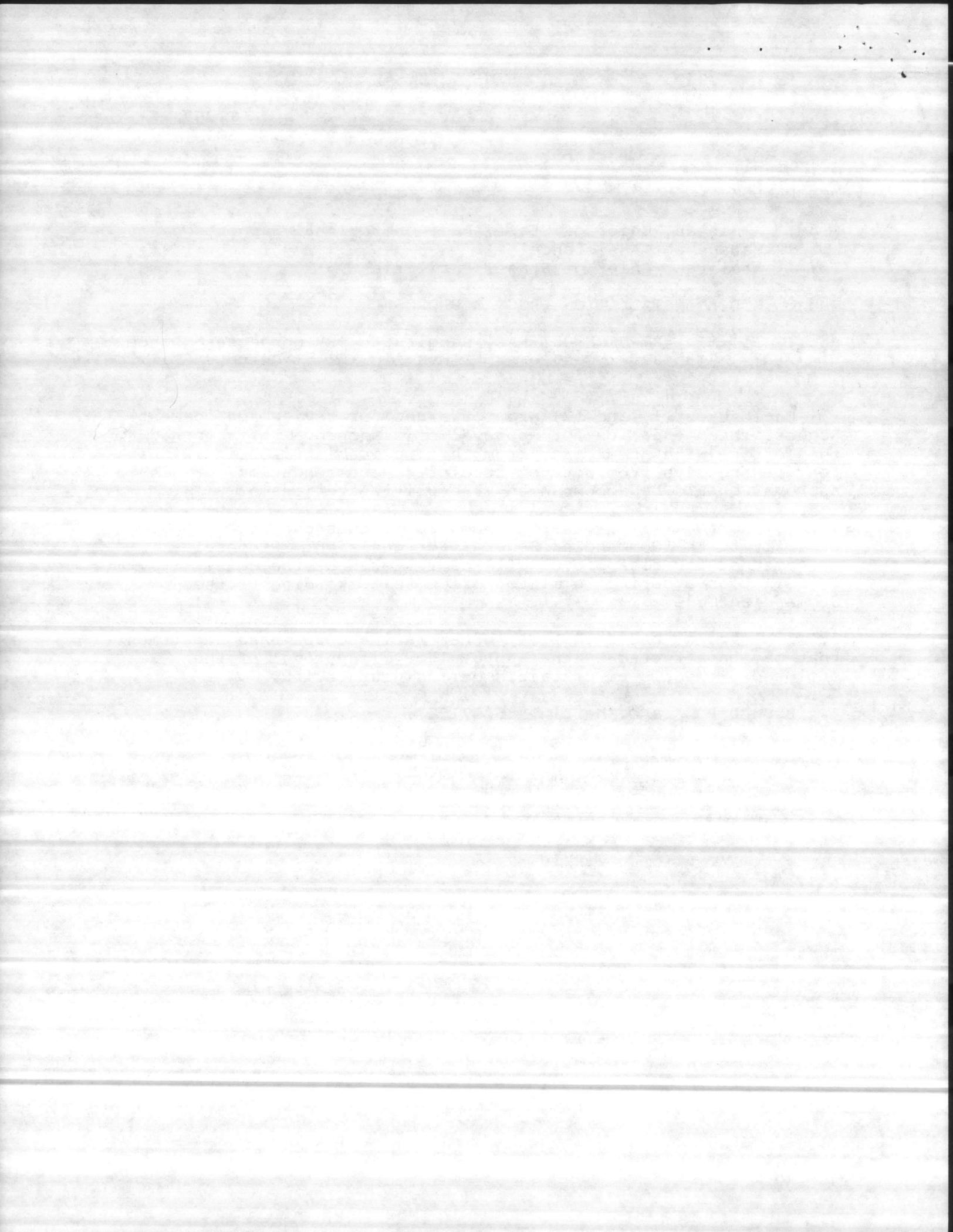
MEMORANDUM

From: Assistant Chief of Staff, Base Operational Support  
Management Assistance  
To: Assistant Chief of Staff, Facilities  
Subj: MODEL INSTALLATION PROGRAM PROPOSAL

Encl: (1) MIP #87-CLNC-051-FAC, Repairs to FRP Condensate Lines  
(2) MIP #87-CLNC-052-FAC, Converting Steam Operated Sump  
Pumps to Water

1. Enclosures (1) and (2) are forwarded for review and comment. Request recommendation for approval or disapproval be returned to this office with an excerpt from the applicable directive within ten working days from date of receipt. Recommendation for disapproval should be accompanied by a written rationale.
2. This office will forward proposals recommended for approval directly to the Commanding General for decision. Proposals recommended for disapproval will be reviewed by the Model Installation Steering Committee prior to forwarding to the Commanding General.
3. It is recommended that any other Marine Corps Base department that may be affected by the approval or disapproval of the enclosed proposals be contacted during your review.
4. BOSMAD POC is D. Martin, 5521/1577.

  
H. F. SMITH





# MODEL INSTALLATION PROGRAM

# PROPOSAL

## MARINE CORPS BASE CAMP LEJEUNE

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**DO NOT WRITE IN THIS SPACE**

DATE RECEIVED

11 Feb 87

PROPOSAL NUMBER

87-CLNC-051-FAC

TITLE OR SUBJECT OF PROPOSAL

Repairs to FRP Condensate Lines

NAME, TITLE, GRADE/RANK, UNIT OF SUBMITTER(S)

MORRIS L. HUMPHREY  
Pipesitter Foreman WS10 UTILITIES BASE MAINT.

PHONE

3099

CURRENT PROCEDURE TURN OFF AND DRAIN DOWN ALL LIQUID FROM THE LINE TO BE REPAIRED. USE LATHE TO CUT AND TRIM LINE. USE FRP CEMENT ADHESIVE. INSTALL ELECTRIC BLANKET FOR APPROXIMATELY 3 HOURS TO COOK AND SET UP. PROTECTIVE EQUIPMENT NEEDED ① AIR SUPPLIED RESPIRATORS ② TYVEX SUIT ③ RUBBER GLOVES. THIS PROCESS ALTOGETHER AVERAGE APPROXIMATELY 2 DAYS, FOR 2 MEN.

PROPOSED PROCEDURE (If a directive/order must be waived to implement proposal-Identify the specific reference.)

TO REPAIR FRP PIPE WITH NR 835 UNDERWATER REPAIR PUTTY. THIS PROCESS IS COMPLETED IN MOST CASES IN APPROXIMATELY 2 HOURS. THE LINE DOES NOT HAVE TO BE COMPLETELY DRY. THERE ARE NO SPECIAL PROTECTIVE EQUIPMENT NECESSARY TO ACCOMPLISH WORK IN A SAFE MANNER. ROUGH UP THE SURFACE WITH A FILE AND APPLY THE PUTTY AND NYLON MESH ON THE PIPE. LET SET FOR 4 HOURS AND TURN PRESSURE BACK ON.

BENEFITS/ADVANTAGES

- ① NO SPECIAL PROTECTIVE EQUIPMENT NEEDED
- ② MAN-HOURS REDUCED TREMENDOUSLY
- ③ LESS EQUIPMENT TO PURCHASE TO MAKE REPAIRS

FRP PIPE IS A RE-INFORCED FIBERGLASS PIPE, WHICH HAS BEEN INSTALLED BASE WIDE FOR CONDENSATE LINES, OIL LINES MCAS AND DOMESTIC HOT WATER LINES.

I (WE) UNDERSTAND THAT THE ACCEPTANCE OF A CASH AWARD FOR THE USE OF THIS PROPOSAL BY THE UNITED STATES GOVERNMENT SHALL NOT FORM THE BASIS OF A FURTHER CLAIM OF ANY NATURE UPON THE UNITED STATES BY ME (US), MY (OUR) HEIRS, OR ASSIGNS.

Morris L. Humphrey 2-10-87  
(SIGNATURE AND DATE)

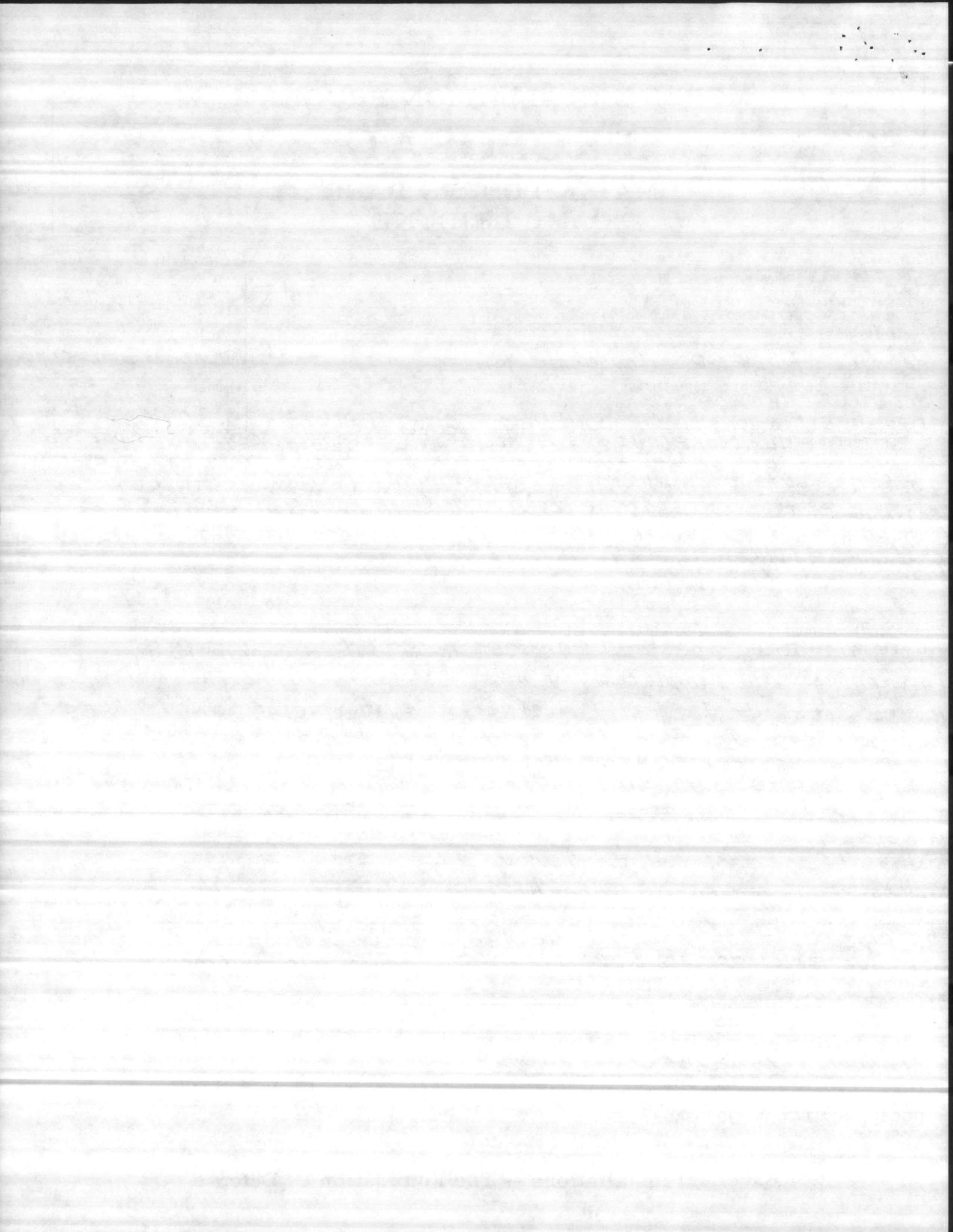
(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL

MCBCL 11800

Excellent Installations — The Foundation Of Defense

ENCL (1)





# MODEL INSTALLATION PROGRAM

# PROPOSAL

## MARINE CORPS BASE CAMP LEJEUNE



**INSTRUCTIONS:**

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**DO NOT WRITE IN THIS SPACE**

DATE RECEIVED

11 Feb 87

PROPOSAL NUMBER

87-CUM-052-FAC

TITLE OR SUBJECT OF PROPOSAL

*Converting steam operated sump pumps to water*

NAME, TITLE, GRADE/RANK OF SUBMITTER(S)

*MORRIS L. HUMPHREY  
Pipefitter Foreman WS10 Utilities BASE MAINT.*

PHONE

451-3099

CURRENT PROCEDURE

*steam operated sump pumps ARE CURRENTLY being used in outside steam pits. Approximately \$700.00 EACH. There ARE A Large number of complete replacements, and A tremendous number of repairs yearly.*

PROPOSED PROCEDURE (If a directive/order must be waived to implement proposal-Identify the specific reference.)

*install water operated sump pumps in ALL steam pits aboard MCB AND AIR station complex, to include steam ~~steam~~ tunnel*

BENEFITS/ADVANTAGES

- ① Reduce the number of repairs
- ② Reduce the number of replacements yrly (pumps)
- ③ ELIMINATE live steam blowing continuously because of sump pump being hung up.
- ④ ENABLE the pits and steam tunnel to be dewatered while steam is taken off.
- ⑤ ELIMINATE the discharge line on the sump pump to completely close up with calcium every three months.
- ⑥ WATER OPERATED pumps ARE MORE ECONOMICAL to purchase, low maintenance, seldom has to be replaced.

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*Morris L. Humphrey 2-10-87*  
(SIGNATURE AND DATE)

(SIGNATURE AND DATE)

MODEL INSTALLATION PROPOSAL

MCBCL 11800

⑦ Reduce the heat inside steam pits

